

# **Monday 25 August**

14:00

## Underground Laboratories: parallel session 1

Session | Location: North Hall #3 | Convener: Sean Paling

14:00-14:20 The status and prospect of CJPL

Speaker

Zhi Zeng

14:20-14:40 Status of the Yemilab operation

Speaker

Jungho So

### 14:40-15:00

The Piedicastello Tunnels: a Potential Underground Laboratory for Astroparticle **Physics in Trento, Italy** 

Speaker

Francesco Nozzoli

#### 15:00-15:20

Element synthesis in star by deep underground nuclear astrophysics JUNA experiments

Speaker

Weiping Liu

15:20-15:40 A new HPGe spectrometer with μBq/kg sensitivity for sample analysis

Speaker

Alex Biondi

15:45 16:00

## Underground Laboratories: parallel session 2

Session | Location: North Hall #3 | Convener: Pia Loaiza

#### 16:00-16:20

In-situ environmental radiation background measurement in the second phase of **CIPL** 

Speaker

Peng Zhang

## 16:20-16:40

Measurement of the Cosmic Muon Flux at the Stawell Underground Physics Laboratory using the muon veto of the SABRE South Experiment

Speaker

Mr Guangyong Fu

## 16:40-17:00

Cosmic Moun flux measurement using the 1-ton prototype detector of water phase in the CJPL-I

Speaker

yapeng wang

## 17:00-17:20

Cosmogenic Radiation Characterization for the Colorado Underground Research Institute

#### Speaker

Dakota Keblbeck

### 17:20-17:40

An LNGS Mobile Neutron Detector (ALMOND): Mapping Ambient Neutron **Background of Gran Sasso National Laboratory** 

#### Speaker

Melih Solmaz

### 17:40-18:00

The HENSA project for the characterization of neutron fluxes in underground **laboratories** 

### Speaker

Nil Mont

18:00-18:20 Radon-222 Screening Capability at SNOLAB

### Speaker

Nasim Fatemighomi

18:20

# **Tuesday 26 August**

14:00

## Underground Laboratories: parallel session 3

Session | Location: North Hall #3 | Convener: Yeongduk Kim

#### 14:00-14:20

Th and U assessment in high-purity copper for low-background applications at

#### Speaker

Olga Gileva

#### 14:20-14:40

Cross-validated ICP-MS Methodology for Ultratrace <sup>232</sup>Th/<sup>238</sup>U Determination in **Material Radiopurity Assessment** 

#### Speaker

Yan Zhu

#### 14:40-15:00

Application of the bateman equation to analyze disequilibrium in the \$^{232}\$Th and \$^{238}\$U chains in low-background detector materials

#### Speaker

Eunkyung Lee

#### 15:00-15:20

Simulation of the background from \$^{13}\$C(\$\alpha\$, \$n\$)\$^{16}\$O reaction in the JUNO scintillator

#### Speaker

Maxim Gromov

15:20-15:40 K-42 mitigation studies in Ar-42-spiked liquid argon for LEGEND

### Speaker

Christoph Vogl

15:40 16:00

## Underground Laboratories: parallel session 4

Session | Location: North Hall #3 | Convener: Xiaolian Wang

## 16:00-16:20

Readout Electronics on Waveform Digitization and High-precision Time Measurement

#### Speaker

Jiajun Qin

#### 16:20-16:40

Development of cryogenic ASICs for HPGe detectors for dark matter and neutrino experiments

## Speaker

Canwen Liu

16:40-17:00 Energy and timing resolution boost with waveform analysis

#### Speaker

Yuyi Wang

## 17:00-17:20

Development of an R-value-Based Trigger Algorithm for Energy Threshold Reduction

#### Speaker

Woo Tae Kim

## 17:20-17:40

First attempt of reconstruction for multi-point events based on Markov chain Monte Carlo method in liquid scintillator detectors

### Speaker

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## 17:40-18:00

High-speed and high-precision pulse digitization electronics system with high-bandwidth readout for frontier physics experiments

### Speaker

Haoyan Yang

18:20

# **Wednesday 27 August**

14:00

## Underground Laboratories: parallel session 5

Session | Location: North Hall #3 | Convener: Long Ma

14:00-14:20 Validation of LMO crystals for the CUPID Experiment

Speaker

Massimo Girola

#### 14:20-14:40

High Spectral Resolution Perovskite Semiconductor CsPbBr3 for Gamma-ray **Detection** 

Speaker

Yihui He

#### 14:40-15:00

The Study of Tungsten Thin Films for Ultra-low Tc Superconducting Transition **Edge Sensors for 0vββ Experiment** 

Speaker

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#### 15:00-15:20

Fast optical photon-number-resolving detector with iridium transition edge sensor

#### Speaker

Dr Yuki Mitsuya

15:20-15:40 Superconducting Qubits as Particle Detectors

Speaker

Alberto Ressa

15:40 16:00

# Underground Laboratories: parallel session 6

Session | Location: North Hall #3 | Convener: Shukui Liu

16:00-16:20 First Results from the CRAB Experiment at the TRIGA Mark-II Reactor

Speaker

Elisabetta Bossio

## 16:20-16:40

Development of nuclear power plant reactor monitoring by the neutrino method using the iDREAM detector

Speaker

Dr Alexander Chepurnov

16:40-17:00 Nuclear Recoil Tracking for Directional CEvNS Measurements

Speaker

David Caratelli

## 17:00-17:20

Development and test of a prototype time projection chamber for RELICS neutrino experiment

#### Speaker

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## 17:20-17:40

The measurement of the wavelength-dependent water transparency in Super-Kamiokande

#### Speaker

Tomoaki Tada

### 17:40-18:00

New 1-ton neutrino detector at CJPL-I: equipment upgrades and performance

#### Speaker

Haozhe Sun

## 18:00-18:20

Modelling of HPGe Detectors for the LEGEND Experiment and Low-Background Research

#### **Speaker**

Difei Xu

18:20

# **Thursday 28 August**

14:00

**Underground Laboratories: parallel session 7** 

Session | Location: North Hall #3 | Convener: Prof. Yulan Li

14:00-14:20 Research progress on new silicon drift detector for X-ray detection

Speaker

Prof. Rui Jia

14:20-14:40 R&D of the microchannel plate photomultiplier tubes

Speaker

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14:40-15:00

Prototype Testing for TRIDENT: In-Situ Performance of Multi-PMT Optical Modules

Speaker

Fuyudi Zhang

15:00-15:20 Development of Ge detectors at THU for rare event detection

Speaker

Yang Tian

15:20-15:40

Progress of Domestic High-Purity Germanium Crystals growth and detector fabrication

Speaker

Wei Zhang

15:40 16:00

**Underground Laboratories: parallel session 8** 

Session | Location: North Hall #3 | Convener: Hide-Kazu TANAKA

16:00-16:20 Current status and technical aspects of GRANDProto300

Speaker

Sei Kato

16:20-16:40 Design Plan and Development Progress of the LACT SiPM Camera

Speaker

Mingjie Yang

16:40-17:00 Progress on the NvDEx high pressure vessel and gas system

Speaker

Qiang Hu

17:00-17:20

Characterization of the JUNO Liquid Scintillator with Proton and Carbon Beams

Speaker

Ulrike Fahrendholz

17:20-17:40 Magnetic dipole-dipole transition for scintillation quenching

Speaker

Zhe Wang

17:40-18:00

**Omnidirectional Photon Time Projection with Large Liquid Neutrino Detectors** 

Speaker

Benda Xu